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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/886,268	06/21/2001	Koji Takeguchi	100794-09745(FUJR 18.748)	6901
26304	7590 03/01/2004		EXAMINER	
KATTEN MUCHIN ZAVIS ROSENMAN 575 MADISON AVENUE			PHILPOTT, JUSTIN M	
	NEW YORK, NY 10022-2585		ART UNIT	PAPER NUMBER
	,		2665	2 1
			DATE MAILED: 03/01/2004	11

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Autieus Occurrence	09/886,268	TAKEGUCHI ET AL.
Office Action Summary	Examiner	Art Unit
TI MAII DIO DATE (II i manusi di m	Justin M Philpott	2665
The MAILING DATE of this communication appeared for Reply	sears on the cover sheet with	n the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONT e, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).
Status		<i>,</i>
Responsive to communication(s) filed on <u>08 E</u> This action is <b>FINAL</b> . 2b)⊠ This     Since this application is in condition for allowated closed in accordance with the practice under E	s action is non-final. ance except for formal matte	
Disposition of Claims		
4)  Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) 10-14 is/are withdray 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-9 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the option of the sheet of the option of the Examina sheet (s) including the correct of the option of the sheet (s) including the correct of the option of the sheet (s) including the correct of the option of the sheet (s) including the correct of the option of the sheet (s) including the correct of the option of the sheet (s) including the correct of the option of the sheet (s) including the correct of the option of the opt	cepted or b) objected to be drawing(s) be held in abeyand ction is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received.  Its have been received in Aporty documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 4.	Paper No(s	ummary (PTO-413) )/Mail Date Iformal Patent Application (PTO-152) 

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election without traverse of claims 1-9 in Paper No. 10 is acknowledged.

### Claim Objections

2. Claims 1, 8 and 9 are objected to because of the following informalities: applicant is requested to insert commas as indicated in the following in order to clarify applicant's invention:

"guarantee information adding means for adding guarantee information, for guaranteeing the continuity of the divided signals, to each of the divided signals to generate transmission signals;" (claims 1 and 8), and

"on the basis of guarantee information, for guaranteeing the continuity of the divided signals, included in the divided signals." (claim 9).

Appropriate correction is required.

#### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, claim 5 recites the limitation "each of the transmission signals variable" in claim 4. There is insufficient antecedent basis for this limitation in the claim.

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### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3, 8 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,461,622 to Bleickardt et al.

Regarding claims 1, 8 and 9, Bleickardt teaches a transmission system for controlling the transmission of a multiplexed signal via a path, the system comprising: a sending apparatus (e.g., 200, see FIG. 2) including: signal dividing means (e.g., via combination of 205, 208, 211-213, 216-218) for dividing the multiplexed signal (e.g., 201) to generate a plurality of divided signals (e.g., 202-204) in the STS or STM transmission interface format (e.g., STS-1); guarantee information adding means (e.g., overhead inserters 217) for adding guarantee information (e.g., Stuffing Indicator and overhead bytes, see col. 4, line 30 – col. 6, line 5), for guaranteeing the continuity of the divided signals (e.g., see col. 6, lines 31-65 regarding Stuffing Indicator and overhead bytes extracted and evaluated to provide proper destuffing and alignment), to each of the divided signals to generate transmission signals; and signal sending means (e.g., 218) for sending the transmission signals, and a receiving apparatus (e.g., 500 in FIG. 5) including: a signal receiving means (e.g., via combination of 504-508) for receiving the transmission signals (e.g., 501); and signal restoring means (e.g., via combination of 509-511) for restoring the

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multiplexed signal by constructing the divided signals (e.g., at output of 511) on the basis of the guarantee information (e.g., see col. 6, line 16 – col. 7, line 48).

Regarding claim 2, Bleickardt teaches the guarantee information adding means adds at least one of information regarding the type of the multiplexed signal (e.g., see col. 4, lines 30-59 regarding the number of fixed stuffing bytes which indicate a certain signal rate), the frame number of the multiplexed signal (e.g., see col. 5, lines 45-64 regarding frame reference bytes), and a division number (e.g., Stuffing Indicator byte, see col. 4, line 22 – col. 5, line 7) at the time of dividing the multiplexed signal to the divided signal as the guarantee information.

Regarding claim 3, Bleickardt teaches the guarantee information adding means adds the guarantee information in empty bytes of a path overhead (e.g., via path overhead generator, see col. 5, lines 45-64) for the divided signal.

## Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bleickardt in view of U.S. Patent No. 6,473,438 to Cioffi et al.

Regarding claim 4, Bleickardt teaches the transmission system discussed above regarding claim 1, however, may not specifically disclose the receiving apparatus further includes delay

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information notifying means for giving the sending apparatus delay information regarding delays which have occurred at the time of receiving the transmission signals.

Cioffi also teaches a transmission system for controlling the transmission of a multiplexed signal via a path, and further, Cioffi teaches providing improved synchronization upon experiencing delays. Specifically, Cioffi teaches a receiving apparatus (e.g., central unit 10) further includes delay information notifying means (e.g., delay correction information, see col. 15, line 62 – col. 16, line 20) for giving a sending apparatus (e.g., first remote unit 15) delay information regarding delays which have occurred at the time of receiving the transmission signals. Cioffi further discloses that the teachings are applicable to a wide variety of data transmission systems including systems utilizing fiber for transmission path means (e.g., see col. 3, lines 10-16; see also col. 5, lines 48-58 regarding additional applicability). The delay correction information teachings of Cioffi provides improved synchronization for a plurality of signals transmitted along a common path whereby a receiving apparatus (e.g., 10) can accurately coordinate and reliably interpret a plurality of multiplexed signals having various delays (e.g., see col. 2, lines 45-51; see also col. 2, line 65 – col. 5, line 58). Thus, at the time of the invention it would have been obvious to one of ordinary skill in the art to apply the delay correction information teachings of Cioffi to the transmission system of Bleickardt in order to provide improved synchronization for a plurality of signals transmitted along a common path whereby a receiving apparatus can accurately coordinate and reliably interpret a plurality of multiplexed signals having various delays (e.g., see col. 2, lines 45-51).

Regarding claim 5, Cioffi further teaches, on the basis of delay information, the signal sending means (e.g., at remote unit) sets the bit rate (e.g., data rate, see col. 4, line 64 – col. 5,

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line 6) of each of the transmission signals and makes delay correction (e.g., see col. 3, lines 25-39).

Regarding claims 6 and 7, while Bleickardt in view of Cioffi may not specifically disclose the signal sending means overlaps portions of the transmission signals, whereby the signal receiving means makes delay correction by making use of an overlap, Examiner takes official notice that it is well known in the art of multiplex communications to overlap portions of transmitted signals whereby delay correction is performed at receiving means.

#### Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: U.S. Patent No. 5,257,261 to Parruck et al., U.S. Patent No. 5,878,039 to Gorshe et al., and U.S. Patent No. 5,917,870 to Wolf disclose synchronization means for SONET signals.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin M Philpott whose telephone number is 703.305.7357. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D Vu can be reached on 703.308.6602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Justin M Philpott

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2600**